International Application No PCT/EP2004/008957

A. CLASSIFICATION OF SUBJECT MATTER
I PC 7 B01J23/89 C07C5/32 C10G45/00 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** $\begin{array}{ll} \label{linear_model} \text{Minimum documentation searched} & \text{(classification system followed by classification symbols)} \\ IPC 7 & B01J & C07C & C10G \\ \end{array}$ Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. US 3 212 255 A (PUTT JOHN W ET AL) 19 October 1965 (1965-10-19) 1.8 X column 1, line 66 - line 68 column 2, line 22 - line 26; claim 1 WO 01/68571 A (GRIFFITHS DAVID CHARLES : 1,2,8 X BP CHEM INT LTD (GB); BINMORE GAVIN THOMAS () 20 September 2001 (2001-09-20) page 6, line 10 - line 31; claims 1,2,9 GB 2 353 734 A (INST FRANCAIS DU PETROL) 1,2,6,8 Χ 7 March 2001 (2001-03-07) page 4, line 11 - line 16; claims 1,22,28-30 DE 25 38 098 A (BRINCKMANN HARBURGER OEL) X 1,6,8 10 March 1977 (1977-03-10) page 8, paragraph 3; tables 1,3 Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 09. 02. 2005 26 October 2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Deurinck, P Fax: (+31-70) 340-3016

International Application No PCT/EP2004/008957

	CANDIDA CANDIDA	PC1/EP2004/00895/
	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	la.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 6 152 975 A (ELLIOTT DOUGLAS C ET AL) 28 November 2000 (2000-11-28) column 4, line 12 - line 18; claims 1,2,4	1,6,8
X	GB 1 160 872 A (VARTA AKTIENGESELLSCHAFT) 6 August 1969 (1969-08-06) page 2, line 20 - page 3, line 86; claims 1,4,5,7	1,2,6,8
		·
	·	

International application No. PCT/EP2004/008957

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely pald by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1,2,8
Remark on Protest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1,2,8

dehydrogenation process

1.1. claim: 6

hydrogenation process

2. claim: 3

SO2 oxidation

3. claim: 4

NO reduction with CO

4. claim: 5

CO methanisation

5. claim: 7

ethane hydrogenolysis

Information on patent family members

International Application No PCT/EP2004/008957

Patent document cited in search report		Publication date	Patent family member(s)			Publication date
US 3212255	Α	19-10-1965	NONE			•
WO 0168571	A	20-09-2001	AU BR CA CN EP WO JP NO ZA TW	3393801 / 0109274 / 2401859 / 1418181 1 1263699 / 0168571 / 2003527362 1 20024400 / 200206811 / 588030 F	A A1 T A1 A1 T A	24-09-2001 17-12-2002 20-09-2001 14-05-2003 11-12-2002 20-09-2001 16-09-2003 13-09-2002 03-07-2003 21-05-2004
GB 2353734	A	07-03-2001	FR FR FR DE JP	2792645 // 2792644 // 2792548 // 10020049 // 2000334302 //	41 41 41	27-10-2000 27-10-2000 27-10-2000 11-01-2001 05-12-2000
DE 2538098	Α	10-03-1977	DE	2538098 /	A1	10-03-1977
US 6152975	A	28-11-2000	US AU AU BR CA CN WO	5977013 / 726925 8 5727598 / 9714231 / 2275310 / 1246076 / 9826868 /	B2 A A A1 A	02-11-1999 23-11-2000 15-07-1998 18-04-2000 25-06-1998 01-03-2000 25-06-1998
GB 1160872	A	06-08-1969	AT BE CH DE DE FR NL US	276310 (687964 / 497920 / 1542552 (1542556 / 1546730 (1509966 / 6614162 / 3573038 /	A A B1 A1 B1 A	25-11-1969 16-03-1967 31-10-1970 18-06-1970 08-10-1970 06-05-1970 19-01-1968 10-04-1967 30-03-1971